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Indian Standard

SPECIFICATION FOR SUBSTANCES OF PAPER AND PULP BOARD

Sixth Reprint AUGUST 2007
(Incorporating Amendment No. 1 and Including Amendment No. 2)

UDC 676.2:531.754

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BUREAU OF INDIAN STANDARDS
MANAK, BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

Gr 2 *January* 1962

AMENDMENT NO. 2 APRIL 2003
TO
IS 1763 : 1961 SPECIFICATION FOR SUBSTANCES OF PAPER AND PULP BOARD

(*Page* 4, *clause* **2.1**) — Substitute the following for the existing:

'2.1 Grammage

Mass of paper or board in grams per square metre after conditioning under standard atmospheric conditions of 27 ± 2°C temperature and 65 ± 2 percent relative humidity.'

[*Page* 4, *clause* **4.1** (*see also Amendment No.* 1)] — Substitute the following for the existing:

'**4.1** *Tolerance*

The tolerance for grammage shall be as prescribed in the relevant Indian Standard.'

(*Page* 5, *clause* **4.2**) — Delete.

(CHD 15)

Indian Standard

SPECIFICATION FOR SUBSTANCES OF PAPER AND PULP BOARD

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(*Continued on page* 2)

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(*Continued from page* 1)

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Indian Standard

SPECIFICATION FOR SUBSTANCES OF PAPER AND PULP BOARD

0. FOREWORD

0.1 This Indian Standard was adopted by the Indian Standards Institution on 3 October 1961, after the draft finalized by the Paper Sectional Committee had been approved by the Chemical Division Council.

0.2 Paper and pulp boards are being manufactured in a large variety of 'substances'. It is desirable that a rational series, of substances should be worked out so as to bring about a reduction of this uneconomical variety. The present system of expressing substance by the 'poundage' of a ream also requires simplification not only for the amount of calculation which it involves but also for the fact that in commercial practice the number of sheets in a ream varies. The recommendation of the ISO Technical Committee for Paper, ISO/TC 6, is to measure the substance by the weight in grams per square metre of the paper or board. This system involves the least amount of calculation, does not depend on the size or number of sheets in the ream and may, therefore, be applied with equal ease for all purposes. This international system has been adopted in all Indian Standards for paper and board and is in conformity with the country's changeover to metric system.

0.3 The untrimmed (raw stock) sizes of paper prescribed in this standard are the same as those in IS : 1064-1961 Specification for Paper Sizes (*Revised*).

0.4 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with the latest version of IS : 2-1960 Rules for Rounding Off Numerical Values (*Revised*). The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

0.5 This standard is intended chiefly to cover the technical provisions relating to the substances of paper and pulp board, and it does not include all the necessary provisions of a contract.

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1. SCOPE

1.1 This standard prescribes the substances in which paper (other than tissue) and pulp board shall normally be manufactured and stocked.

2. TERMINOLOGY

2.0 For the purpose of this standard, the following definition shall apply.

2.1 Substance — Weight of paper or board in grams per square metre under standard atmospheric conditions of 27° ± 2°C and 65 ± 2 percent relative humidity.

3. PREFERRED SUBSTANCES

3.1 Raw stock paper and pulp board shall be manufactured in the substances given in Table I.

TABLE I PREFERRED SUBSTANCES OF PAPER AND PULP BOARD

SUBSTANCE g/m2	WEIGHT OF 500 SHEETS OF UNTRIMMED PAPER, kg						
	RA0 Standard	RA0 Special	RA1 Standard	RA1 Special	RBI Standard	RC1 Standard	RC1 Special
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
40	21.0	21.8	10.5	10.9	15.8	12.6	13.1
44	23.1	24.0	11.5	12.0	17.3	13.9	14.4
48	25.2	26.2	12.6	13.1	18.9	15.1	15.7
52	27.3	28.4	13.6	14.2	20.5	16.4	17.0
56	29.4	30.6	14.7	15.3	22.0	17.6	18.3
60	31.5	32.7	15.7	16.4	23.6	18.9	19.6
75	39.3	40.9	19.7	20.5	29.5	23.6	24.5
90	47.2	49.1	23.6	24.6	35.4	28.3	29.4
110	57.7	60.0	28.9	30.0	43.3	34.6	35.9
130	68.2	70.9	34.1	35.5	51.2	40.9	42.4
150	78.7	81.8	39.3	40.9	59.1	47.2	49.0
175	91.8	95.5	45.9	47.7	68.9	55.1	57.1
200	104.9	109.1	52.5	54.6	78.8	63.0	65.3
225	118.0	122.8	59.0	61.4	88.6	70.9	73.4
275	144.3	150.0	72.1	75.0	108.3	86.6	89.8
325	170.5	177.3	85.2	88.7	128.0	102.3	106.1

3.2 If a substance not given in Table I is required, it shall be agreed upon between the purchaser and the supplier, and shall be selected so that it conforms to the steps of increment given below :

RANGE OF SUBSTANCE g/m^2	STEPS OF INCREMENT OF SUBSTANCE g/m^2
28 to 60	4
60 ,, 80	5
80 ,, 150	10
Above 150	25

4. TOLERANCE

4.1 For writing, printing and blotting papers, the actual substance shall not differ from the nominal substance by more than ±2.5 percent.

4.2 For kraft and other wrapping papers and duplex, ticket, pulp and grey boards, the actual substance shall not differ from the nominal substance by more than ±5.0 percent.

MGIPF — 313 Deptt. of BIS/2007—100

BUREAU OF INDIAN STANDARDS

Headquarters:

Manak Bhavan, 9 Bahadur Shah Zafar Marg, NEW DELHI 110002

Telephones 23230131, 23233375, 23239402 **Fax** 91 +011 23239399, 23239382

E - Mall info@bis org in website http //www bis org in

Central Laboratory:	*Telephone*
Plot No 20/9, Site IV, Sahibabad Industrial Area, SAHIBABAD 201010	277 0032
Regional Offices:	
Central Manak Bhavan, 9 Bahadur Shah Zafar Marg, NEW DELHI 110002	2323 7617
*Eastern 1/14 CIT Scheme VII M, V I P Road, Kankurgachi, KOLKATA 700054	2337 8662
Northern SCO 335-336, Sector 34-A, CHANDIGARH 160022	260 9285
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†Western Manakalaya, E9, MIDC, Behind Marol Telephone Exchange, Andheri (East), MUMBAI 400093	2832 9295
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*Sales Office is at 5 Chowringhee Approach, P O Princep Street, KOLKATA 700072	2355 3243
†Sales Office (WRO) Plot No E-9, MIDC, Rd No 8, Behind Telephone Exchange, Andhen (East), Mumbai-400 0093	2832 9295

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